9/23/2022

FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

1. ABSTRACT:

As technology is improving,the traditional work has been shifted to automated one.In such way,the agriculture sector is improving with modern technology.In agriculture,fertilizer is a important factor which is used to enhance the growth of crops.The proper recommendation of fertilizer helps the plant to avoid of causing disease.what the project we taken "FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION".

2. INTRODUCTION:

The agriculture is an important sector in India.The people in india is more conscious about health and the farmers are about to produce only quality of crop.Usually farmers are used to spray fertilizer to preventing the crops from disease.Besides this pesticides,the fertilizer most important thing to do in agriculture.Pesticides which in used to kill the pests,weeds,fungi and so etc.Fertilizer is used to increase the growth of crops which gives us a good health.Naturally soil contains major nutrients such as phosphorus(P),nitrogen(N),and potassium(K) etc and also some minor nutrients.Although these nutrients farmers also add fertilizer if the fertilizer over dose it may cause some soil pollution in soil.So here we need a recommendation system to help the farmers and also if there is a disease in crops the system used to predict and have to recommend the fertilizer.

3. LITERACTURE SURVEY:

PAPER 1:

"Fertilizer rec ommendation system for disease prediction in tree leaves "

-By R.Neela , P.Nithya

This paper is said that detection and recognition of plant drive using machine learning,The disease is predict in leaves using imageprocessing. Different methods in image processing there but here segmentation is used.

PAPER 2:

"Intelligent insecticide and fertilizer recommendation system based on TPF-CNN for smart farming"

-By Tamas Thorat,B.K Pattle

This paper is based on Artificial intelligence for identifying pasts and recommending insecticides using TPF-CNN and by using soil sensor it recommends the fertilizer it shows the combination of recommending insecticides and fertilizers.

PAPER 3:

"Soil based fertilizer recommendation system for crop disease prediction"

-By Dr.Pandi selvi and P.Pornima

This paper shows that prediction is based on soil type recommends the fertilizers.

PAPER 4:

"Soil based fertilizer recommendation system using IOT"

-By Aishwarya bhosale,Nikita asode,Mayul ahuja,Rutank thanekur,Indira joshi

In this paper ,in order to increase the productivity.The fertilizers recommended based on PH of the soil and moisture content in soil .This is using by analog PH sensor kit.

PAPER 5:

"yield based on macro-nutrients and micro- nutrients status "

-ByVaneesbeer Singh, et al. (2017)

This work presents an approach which uses different Machine Learning techniques in order to predict the category of the yield based on macro-nutrients and micro- nutrients status in dataset. The dataset considered for the crop yield prediction was obtained from Krishi Bhawan (Talab-Tillo) Jammu.The parameters present in the data are Macro-Nutrients (ph,Oc,Ec,N,P,K,S) and Micro Nutrients(Zn,Fe,Mn,Cu) present in samples

collected from different regions of Jammu District .After analysis Machine learning algorithms are applied to predict the category of yield . The category, thus predicted will specify the yield of crops. Theproblem of predicting the crop yield is formulated as Classification where different classifier algorithms are used.